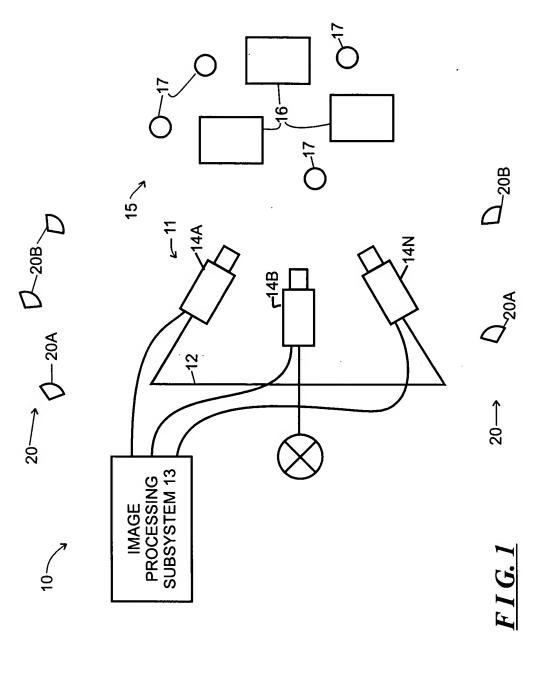
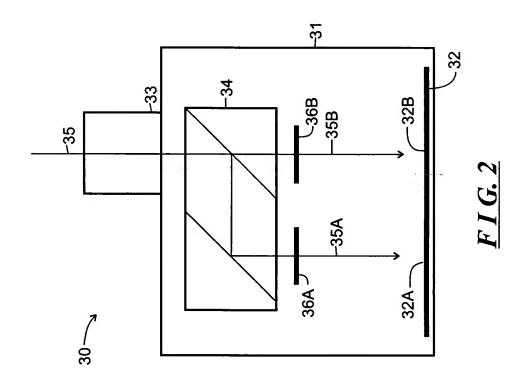
į





CORELLATION METHODOLOGY

100. RECORD BASELINE AND WORKING IMAGE SET

101. ANALYZE IMAGES IN THE BASELINE IMAGE SET TO IDENTIFY LOCATIONS OF TARGETS THEREIN

102. GENERATE A MASK DEFINING REGIONS OF THE WORKING IMAGE PROXIMATE THE SAME RELATIVE LOCATION AS IMAGES OF THE RESPECTIVE TARGETS IN THE BASELINE IMAGE

103. USING THE MASKS, PERFORM A CORRELATION OPERATION BETWEEN THE RESPECTIVE MASKS OF THE WORKING AND BASELINE IMAGE SETS IN CONNECTION WITH EACH TARGET IMAGE TO DETERMINE THE LOCATION OF THE IMAGE OF EACH TARGET IN THE IMAGE(S) COMPRISING THE WORKING IMAGE SET

F I G. 4 LEAST SQUARES METHODOLOGY

110. RECORD BASELINE AND WORKING IMAGE SET

111. ANALYZE IMAGES IN THE BASELINE IMAGE SET TO IDENTIFY LOCATIONS OF TARGETS THEREIN

112. GENERATE A MASK DEFINING REGIONS OF THE WORKING IMAGE PROXIMATE THE SAME RELATIVE LOCATION AS IMAGES OF THE RESPECTIVE TARGETS IN THE BASELINE IMAGE

113. USING THE MASKS, PERFORM A LEAST SQUARES FIT OPERATION BETWEEN THE RESPECTIVE MASKS OF THE WORKING AND BASELINE IMAGE SETS IN CONNECTION WITH EACH TARGET IMAGE TO DETERMINE THE LOCATION OF THE IMAGE OF EACH TARGET IN THE IMAGE(S) COMPRISING THE WORKING IMAGE SET

EDGE SEARCH METHODOLOGY

120. RECORD BASELINE AND WORKING IMAGE SET

121. ANALYZE IMAGES IN THE BASELINE IMAGE SET TO IDENTIFY LOCATIONS OF TARGETS THEREIN

122. GENERATE A MASK DEFINING REGIONS OF THE WORKING IMAGE PROXIMATE THE SAME RELATIVE LOCATION AS IMAGES OF THE RESPECTIVE TARGETS IN THE BASELINE IMAGE

123. USING THE MASKS, PERFORM A SEARCH
OPERATION FOR EDGE(S) OF EACH TARGET IMAGE IN
RESPECTIVE IMAGES OF THE WORKING AND BASELINE
IMAGE SETS FOLLOWED BY A CORRELATION
OPERATION BETWEEN EDGES WITHIN THE RESPECTIVE
MASKS OF THE WORKING AND BASELINE IMAGE SETS,
TO DETERMINE THE LOCATION OF THE IMAGE OF EACH
TARGET IN THE IMAGE(S) COMPRISING THE WORKING
IMAGE SET

DISTANCE TRANSFORM METHODOLOGY

130. RECORD BASELINE AND WORKING IMAGE SET

131. ANALYZE IMAGES IN THE BASELINE IMAGE SET TO IDENTIFY LOCATIONS OF TARGETS THEREIN

132. GENERATE A MASK DEFINING REGIONS OF THE WORKING IMAGE PROXIMATE THE SAME RELATIVE LOCATION AS IMAGES OF THE RESPECTIVE TARGETS IN THE BASELINE IMAGE

133. USING THE MASKS, PERFORM A SEARCH
OPERATION FOR EDGE(S) OF EACH TARGET IMAGE IN
THE RESPECTIVE IMAGES OF THE WORKING AND
BASELINE IMAGE SETS, FOLLOWED BY A DISTANCE
TRANSFORM OPERATION BETWEEN THE EDGES WITHIN
THE RESPECTIVE MASKS OF THE WORKING AND
BASELINE IMAGE SETS, TO DETERMINE THE LOCATION
OF THE IMAGE OF EACH TARGET IN THE IMAGE(S)
COMPRISING THE WORKING IMAGE SET

SHAPE SEARCH METHODOLOGY

140. RECORD BASELINE AND WORKING IMAGE SET

141. ANALYZE IMAGES IN THE BASELINE IMAGE SET TO IDENTIFY LOCATIONS OF TARGETS THEREIN

142. GENERATE A MASK DEFINING REGIONS OF THE WORKING IMAGE PROXIMATE THE SAME RELATIVE LOCATION AS IMAGES OF THE RESPECTIVE TARGETS IN THE BASELINE IMAGE

143. USING THE MASKS, PERFORM A SEARCH
OPERATION FOR EDGE(S) OF EACH TARGET IMAGE IN
THE RESPECTIVE IMAGES OF THE WORKING AND
BASELINE IMAGE SETS, FOLLOWED BY SHAPE
COMPUTATION OF THE TARGET IMAGE CONTOUR IN THE
BASELINE IMAGE SET AND SUBSEQUENTLY PERFORM A
BEST FIT OPERATION BETWEEN THE EDGE OF THE
TARGET IMAGE IN THE WORKING IMAGE SET TO THE
COMPUTED SHAPE IN THE BASELINE IMAGE SET, TO
DETERMINE THE LOCATION OF THE IMAGE OF EACH
TARGET IN THE IMAGE(S) COMPRISING THE WORKING
IMAGE SET